

45th CCII Seminar

“Harnessing Tumor Associated Macrophage Heterogeneity”



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Macrophages have a broad spectrum of immune- and non-immune-related tissue-supporting activities. The roots of this heterogeneity and versatility are only beginning to be understood. Here, we propose a conceptual framework for considering macrophage heterogeneity that organizes the factors shaping their identity within four cardinal points: (1) ontogeny and the view that adult macrophage populations comprise a defined mixture of cells that arise from either embryonic precursors or adult monocytes; (2) local factors unique to the niche of residence, evolving during development and aging; (3) inflammation status; and (4) the cumulative effect of time spent in a specific tissue that contributes to the resilient adaptation of macrophages to their dynamic environment. We will especially discuss how to transpose these concepts to cancer to better understand macrophage heterogeneity.

Date: March 2, 2026 (Mon) 2:00pm - 3:00pm

Venue: NITORI Hall, Bristol Myers Squibb Building

Admission free | No advance registration required

Organized by Center for Cancer Immunotherapy and Immunobiology (CCII)

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